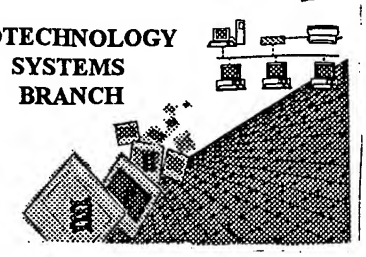
BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/092,243
Source: OIPE
Date Processed by STIC: 3/27/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/092,243

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5 J	Variable Length	Sequence(s) 4 contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING DATE: 04/01/2002
PATENT APPLICATION: US/10/092,243 TIME: 11:12:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\04012002\J092243.raw

pp. 4-6

3 <110> APPLICANT: Hillman, Jeffrey D.
5 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of
6 a Host
8 <130> FILE REFERENCE: MBHB00-505I
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/092,243
C--> 11 <141> CURRENT FILING DATE: 2002-03-06
13 <150> PRIOR APPLICATION NUMBER: 60/147,551
14 <151> PRIOR FILING DATE: 1999-08-06
16 <150> PRIOR APPLICATION NUMBER: US00/21340
17 <151> PRIOR FILING DATE: 2000-08-04
19 <160> NUMBER OF SEQ ID NOS: 20
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 849
25 <212> TYPE: DNA
26 <213> ORGANISM: Actinobacillus actinomycetemcomitans
28 <220> FEATURE:
29 <221> NAME/KEY: misc_feature
30 <222> LOCATION: (566)
31 <223> OTHER INFORMATION: N stands for any nucleotide.
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: (625)
36 <223> OTHER INFORMATION: N stands for any nucleotide.
38 <220> FEATURE:
39 <221> NAME/KEY: misc_feature
40 <222> LOCATION: (627)
41 <223> OTHER INFORMATION: N stands for any nucleotide.
43 <220> FEATURE:
44 <221> NAME/KEY: misc_feature
45 <222> LOCATION: (636)
46 <223> OTHER INFORMATION: N stands for any nucleotide.
48 <220> FEATURE:
49 <221> NAME/KEY: misc_feature
50 <222> LOCATION: (650)
51 <223> OTHER INFORMATION: N stands for any nucleotide.
53 <220> FEATURE:
54 <221> NAME/KEY: misc_feature
55 <222> LOCATION: (656)
56 <223> OTHER INFORMATION: N stands for any nucleotide.
58 <220> FEATURE:
59 <221> NAME/KEY: misc_feature
60 <222> LOCATION: (661)

Does Not Comply
Corrected Diskette Needed

RAW SEQUENCE LISTING DATE: 04/01/2002
PATENT APPLICATION: US/10/092,243 TIME: 11:12:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\04012002\J092243.raw

61 <223> OTHER INFORMATION: N stands for any nucleotide.
63 <220> FEATURE:
64 <221> NAME/KEY: misc_feature
65 <222> LOCATION: (672)
66 <223> OTHER INFORMATION: N stands for any nucleotide.
68 <220> FEATURE:
69 <221> NAME/KEY: misc_feature
70 <222> LOCATION: (681)
71 <223> OTHER INFORMATION: N stands for any nucleotide.
73 <220> FEATURE:
74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (720)
76 <223> OTHER INFORMATION: N stands for any nucleotide.
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (723)
81 <223> OTHER INFORMATION: N stands for any nucleotide.
83 <400> SEQUENCE: 1
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85 tggtcggttc gtccagaata tacagggttt tgcccgtatc ccgtttggag agttccgtcg 120
86 ccagtttcac ccgttgcgct tccccgccgg acagggtggt agaggattgc cccaagcgaa 180
87 tataagacaa gcccacgtca atcagggttt gcaatttacg cgcaatcatt ggaatggcat 240
88 cgaaaaactc gcgcgcatct tccaccgtca tgtccagcac ctgatgaatg gttttacctt 300
89 tgtagcggat ttccagggtt tcgcgattgt aacgcttgcc tttacattgg tcgcaaggca 360
90 cgtacacatc gggcaggaag tgcatttcca ctttgattac gccgtcgccc tggcaggctt 420
91 acagcgcccg ccgcgcacgt taaaactgaa acgccccggg ttataaccgc gcgcacgggc 480
92 tttcggtacg ccggcaaaca attcgcgaat cggcgtgaat acgcccgtgt aagttgcccg 540
W--> 93 gttggagcgt ggcgtgcgtc caatcnggct ttggttaata tcaatacttt atcgaaaaat 600
W--> 94 tccaaacctt taatggactt gtacngngaa acctcngcat tttctgcacn attaangcgt 660
W--> 95 nttgtgcaat anggaacaaa ntgtcgttaa tcagtgtaga atttacctta accggacacn 720
W--> 96 ccngtgatgc aggtaaataa gcccacggga atgtctaaat tgacgttttt caggttgtta 780
97 ccggaagcgc cgaacaattt gagcattttt ttcttatcaa gtgcggtacg ttttttcggt 840
98 atttcgatc 849
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 357
103 <212> TYPE: DNA
104 <213> ORGANISM: Actinobacillus actinomycetemcomitans
106 <400> SEQUENCE: 2
107 gatcactaag ttgttcaatc ctttcgcttg ggaatctttg tctaaatacg gtttatgttg 60
108 cattgcgtta acgtctaaat caccttaga cactgcagtg tttggcaagg cgtagtcatg 120
109 aataaaacgt attctacgtc taagttgtat ttttcttttg ccactttcgc tgcgatttca 180
110 gccacttggt gttccggtcc tgccatcacg cccactttga ttgttgccgg ggcttctgcc 240
111 gccggtttgt ctgccggtgc ggcttccggt tttttctctt cattacaagc ccgttaaggc 300
112 gaatacggag gctaatgttg cgacgcctaa taatttttt caagttcata aaagatc 357
115 <210> SEQ ID NO: 3
116 <211> LENGTH: 886
117 <212> TYPE: DNA
118 <213> ORGANISM: Actinobacillus actinomycetemcomitans
120 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,243

DATE: 04/01/2002
TIME: 11:12:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\04012002\J092243.raw

121 <221> NAME/KEY: misc_feature
122 <222> LOCATION: (554)
123 <223> OTHER INFORMATION: N stands for any nucleotide.
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (596)
128 <223> OTHER INFORMATION: N stands for any nucleotide.
130 <400> SEQUENCE: 3
131 gatcaaactg gtggcgcaag ggcagcgcgt agcaaattta cccgatattt tggtctatgc 60
132 gcgcgtcggc aacggcatgg tagggcgacg ccgtggttta aaccaagcca aagcggaatg 120
133 gcgcttattt aagctaaaac accatcttgg cattcaggga tttttatccg ggctattcac 180
134 ttttgtcctg cgttccggtg ccagattatt gccgacatca ttactgaaaa acatctatca 240
135 aacctttta agaaaataac atgatgaaat taaactgtat tttaaaaata tccggaattt 300
136 ccaccgcact ttttctagcg ggttgttcct caaattcaag tgcgccgacg caatcctctg 360
137 agcaggcgaa ttctgttacg gctgtgaatc ccactgcggt gtacagtaag ccccgcactt 420
138 tggataactt caacgattat gtgaatttct taaaaggtaa agcagcggca gaaggcgttt 480
139 ctgccgacgt attgaatgca caaaataata ttaattatat tcaaaaatcc gtggatttgg 540
140 **acgatcaaca agcnggcaga attcgcaagc gtgatccaaa tgccccgccg atcatnaatt 600**
141 ccgaacggca cgaccaatta cttaaatcgt gtattaacca agaataaagt agacacggca 660
142 gaagcacgtt attgggaaca attgccgcag cttgaaaatg cttcaaagaa attcagcgta 720
143 ccgaaaaatt atctgttagc cttgtggggc atggagagta gctttggcta ttatcagggc 780
144 aattacgatg tgttatccac cttagccact cttgcttttg acggacgccg tgaagcctta 840
145 ttcagcaaag aattcatcgc cgccatgaaa atgctacagc gcgatc 886
148 <210> SEQ ID NO: 4
149 <211> LENGTH: 507
150 <212> TYPE: DNA
151 <213> ORGANISM: Actinobacillus actinomycetemcomitans
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (4)
156 <223> OTHER INFORMATION: N stands for any nucleotide.
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <222> LOCATION: (9)
161 <223> OTHER INFORMATION: N stands for any nucleotide.
163 <220> FEATURE:
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (21)
166 <223> OTHER INFORMATION: N stands for any nucleotide.
168 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: (23)
171 <223> OTHER INFORMATION: N stands for any nucleotide.
173 <220> FEATURE:
174 <221> NAME/KEY: misc_feature
175 <222> LOCATION: (29)
176 <223> OTHER INFORMATION: N stands for any nucleotide.
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,243

DATE: 04/01/2002
TIME: 11:12:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\04012002\J092243.raw

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180 <222> LOCATION: (32)
181 <223> OTHER INFORMATION: N stands for any nucleotide.
183 <220> FEATURE:
184 <221> NAME/KEY: misc_feature
185 <222> LOCATION: (35)..(36)
186 <223> OTHER INFORMATION: N stands for any nucleotide.
188 <220> FEATURE:
189 <221> NAME/KEY: misc_feature
190 <222> LOCATION: (39)
191 <223> OTHER INFORMATION: N stands for any nucleotide.
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (42)
196 <223> OTHER INFORMATION: N stands for any nucleotide.
198 <220> FEATURE:
199 <221> NAME/KEY: misc_feature
200 <222> LOCATION: (45)
201 <223> OTHER INFORMATION: N stands for any nucleotide.
203 <220> FEATURE:
204 <221> NAME/KEY: misc_feature
205 <222> LOCATION: (49)
206 <223> OTHER INFORMATION: N stands for any nucleotide.
208 <220> FEATURE:
209 <221> NAME/KEY: misc_feature
210 <222> LOCATION: (52)
211 <223> OTHER INFORMATION: N stands for any nucleotide.
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
215 <222> LOCATION: (58)
216 <223> OTHER INFORMATION: N stands for any nucleotide.
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: (61)..(62)
221 <223> OTHER INFORMATION: N stands for any nucleotide.
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
225 <222> LOCATION: (65)
226 <223> OTHER INFORMATION: N stands for any nucleotide.
228 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
230 <222> LOCATION: (69)
231 <223> OTHER INFORMATION: N stands for any nucleotide.
233 <220> FEATURE:
234 <221> NAME/KEY: misc_feature
235 <222> LOCATION: (73)
236 <223> OTHER INFORMATION: N stands for any polynucleotide.
238 <220> FEATURE:
239 <221> NAME/KEY: misc_feature
240 <222> LOCATION: (97)
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"N can only represent a single nucleotide"
see item 5 on Error Summary Sheet

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,243

DATE: 04/01/2002
TIME: 11:12:26

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\04012002\J092243.raw

241 <223> OTHER INFORMATION: N stands for any nucleotide.
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (102)
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248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (138)
251 <223> OTHER INFORMATION: N stands for any nucleotide.
253 <220> FEATURE:
254 <221> NAME/KEY: misc_feature
255 <222> LOCATION: (457)
256 <223> OTHER INFORMATION: N stands for any nucleotide.
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (459)
261 <223> OTHER INFORMATION: N stands for any nucleotide.
263 <220> FEATURE:
264 <221> NAME/KEY: misc_feature
265 <222> LOCATION: (467)
266 <223> OTHER INFORMATION: N stands for any nucleotide.
268 <400> SEQUENCE: 4
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270 nngcnaggng canagctta cctttgccga cggttcnctg tntgaaagcg ccattcgcaa 120
271 agtgccggtg gaggcggnga aaattcactc acttggtgcg gaaggcaatg atgtgggatt 180
272 gaaagcccat catggcgggt ggataaagcg ttatttttta tgtcggcaga tgcctttcct 240
273 gcgttaaatg cgttattaga cgaaaatttt tcgtatcagg acacagcagt ttacggcgag 300
274 aattttgtgg tttccgcgct gaatgaagat tccgtgtgtg tgggcgatat ttatcaaatc 360
275 ggctcctgcg tggtggaggt gtcgcagccg cgtaaacctt gtgagcgctt atcgaaaaat 420
276 accaataatc cgaacacgca acaaaccgtg tacgctncng ctggtcnggc tggtatgtgc 480
277 cggtggtacc ccaaggggga aattcaa 507
280 <210> SEQ ID NO: 5
281 <211> LENGTH: 1087
282 <212> TYPE: DNA
283 <213> ORGANISM: Actinobacillus actinomycetemcomitans
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (622)
288 <223> OTHER INFORMATION: N stands for any nucleotide.
290 <220> FEATURE:
291 <221> NAME/KEY: misc_feature
292 <222> LOCATION: (642)
293 <223> OTHER INFORMATION: N stands for any nucleotide.
295 <220> FEATURE:
296 <221> NAME/KEY: misc_feature
297 <222> LOCATION: (661)
298 <223> OTHER INFORMATION: N stands for any nucleotide.
300 <220> FEATURE:
301 <221> NAME/KEY: misc_feature

see p 6 for more errors

FYI Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

6

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/092,243

DATE: 03/27/2002
TIME: 14:13:00

Input Set : A:\00-505I.seqlist.txt
Output Set: N:\CRF3\03272002\J092243.raw

Does Not Comply
Corrected Diskette Needed

3 <110> APPLICANT: Hillman, Jeffrey D.
5 <120> TITLE OF INVENTION: Microbial Polynucleotides Expressed During Infection of
6 a Host
8 <130> FILE REFERENCE: MBHB00-505I
E--> 10 **<140> CURRENT APPLICATION NUMBER: US/10/092,243**
E--> 11 **<141> CURRENT FILING DATE: 2002-03-06**
13 <150> PRIOR APPLICATION NUMBER: 60/147,551
14 <151> PRIOR FILING DATE: 1999-08-06
16 <150> PRIOR APPLICATION NUMBER: US00/21340
17 <151> PRIOR FILING DATE: 2000-08-04
19 <160> NUMBER OF SEQ ID NOS: 20
21 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

774 <210> SEQ ID NO: 20
775 <211> LENGTH: 54
776 <212> TYPE: PRT
777 <213> ORGANISM: Actinobacillus actinomycetemcomitans
779 <400> SEQUENCE: 20
780 Met Val Gly Lys Phe Ile Val Ile Glu Gly Leu Glu Gly Ala Gly Lys
781 1 5 10 15
783 Ser Thr Ala His Gln Cys Val Val Asp Thr Leu Lys Thr Leu Gly Val
784 20 25 30
786 Gly Glu Val Ile Ser Thr Arg Glu Pro Gly Gly Thr Pro Val Gly Gly
787 35 40 45
789 Lys Ala Thr Pro Ser His
790 50
E--> 796 14 delete

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/092,243**

DATE: 04/01/2002
TIME: 11:12:27

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\04012002\J092243.raw**

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18